

Title. NOVEL ESTER DERIVATIVES OF  
BUPRENORPHINE AND THEIR PREPARATION  
PROCESSES AND LONG ACTING  
ANALGESIC PHARMACEUTICAL  
COMPOSITIONS

Inventor(s): Jhi-Joung WANG  
DOCKET NO.: 089048-0299

JN19.301---BUP--- C7--- COCL 3

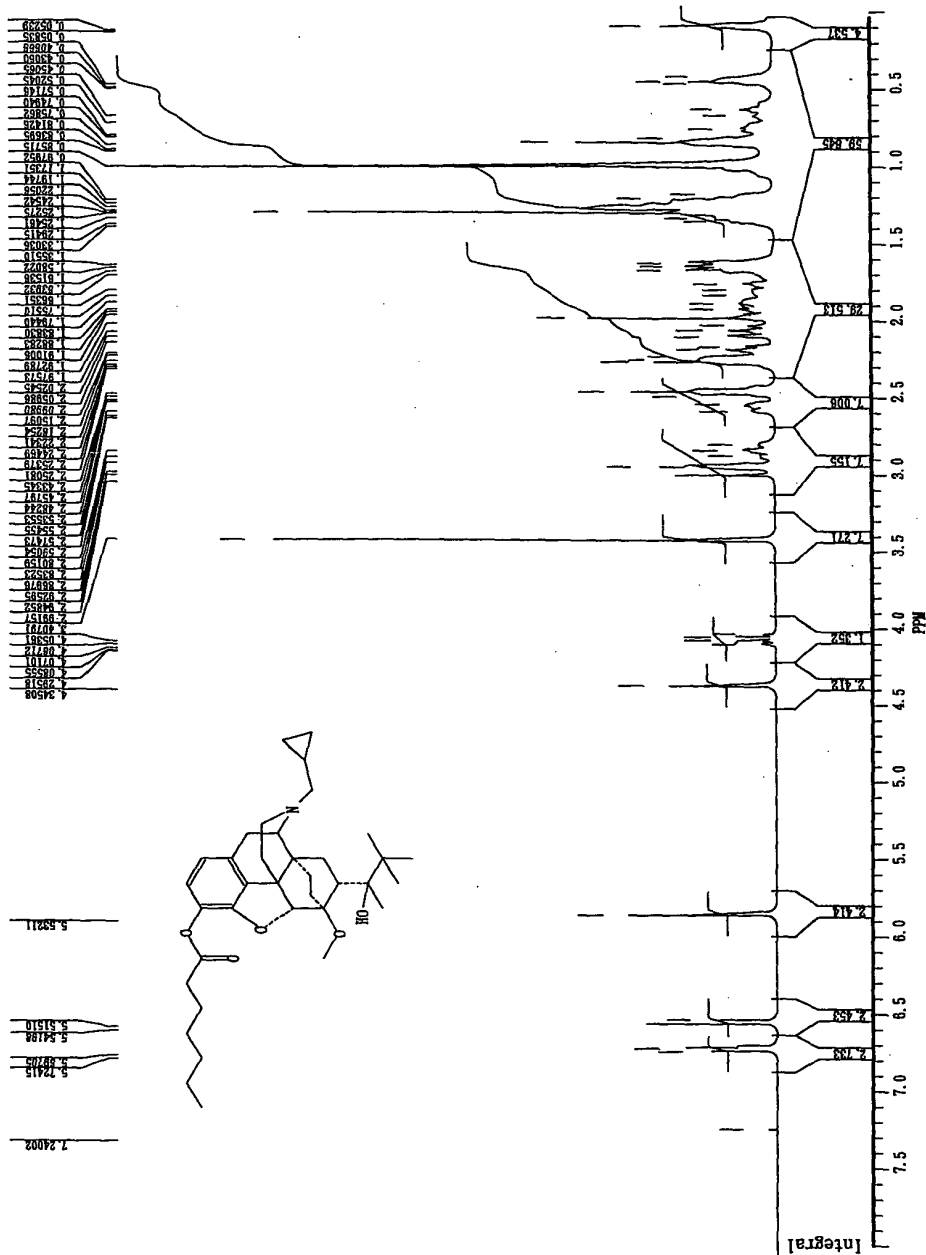


FIG. 1

BUPRENORPHINE AND THEIR PREPARATION  
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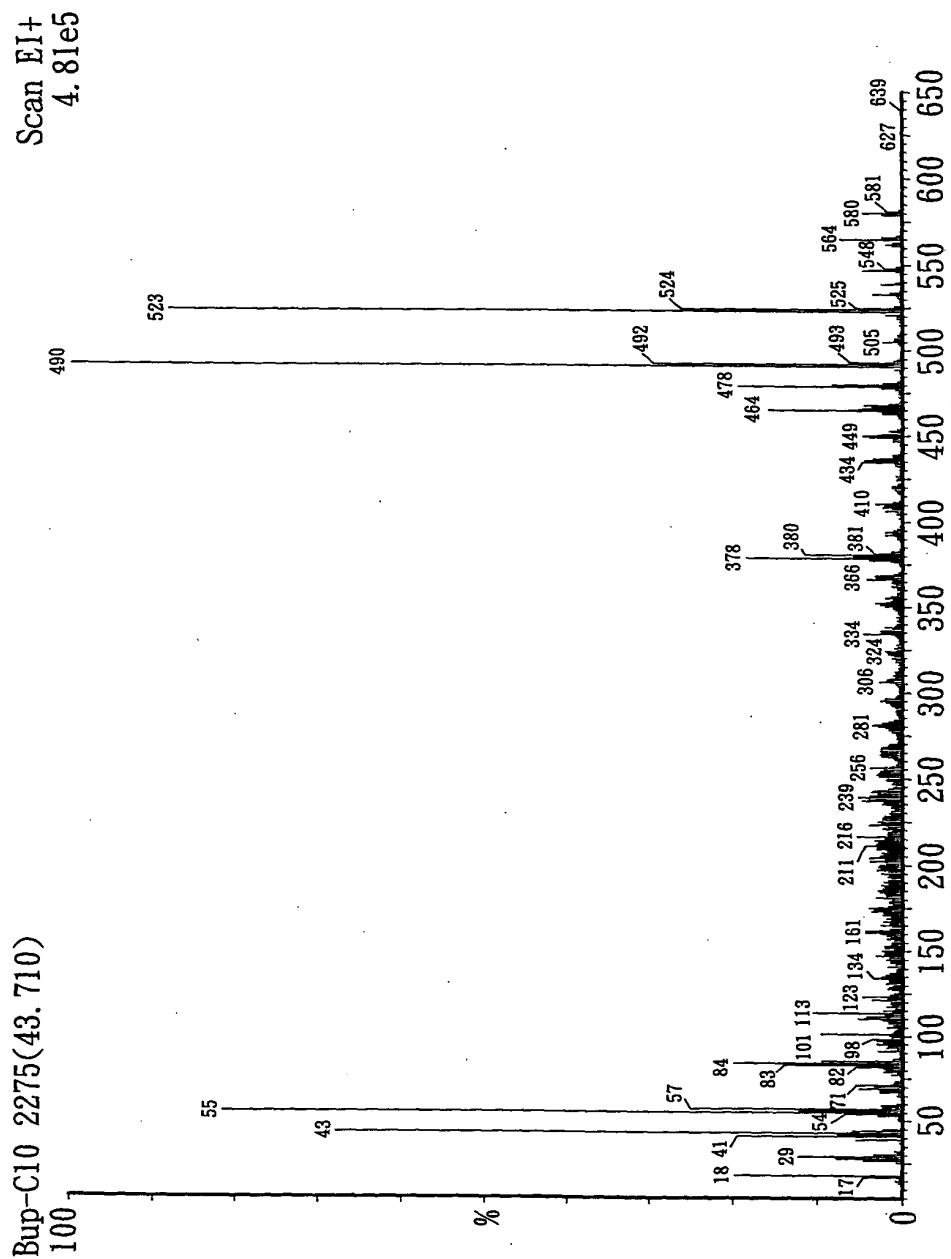
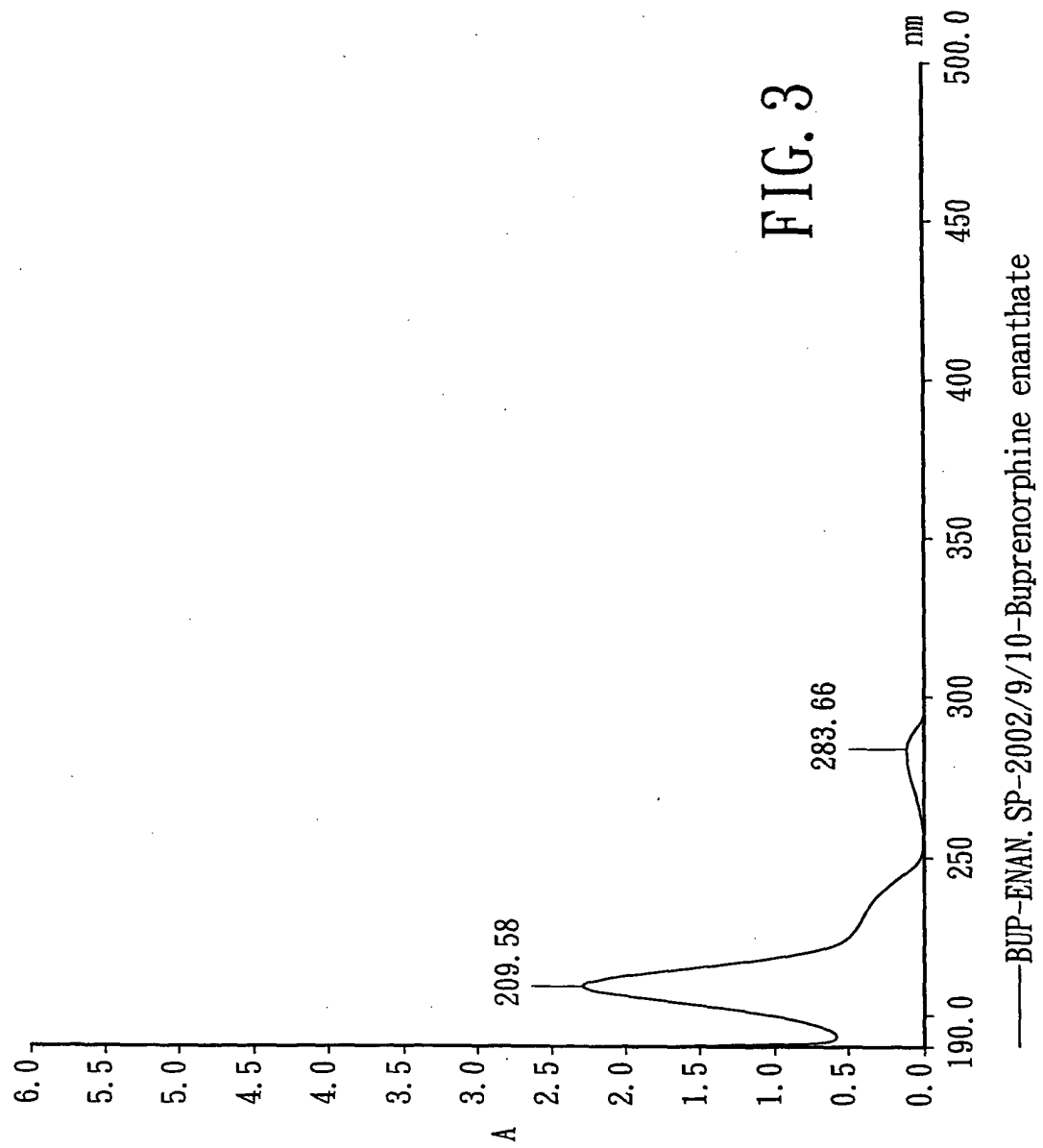


FIG. 2

BUPRENORPHINE AND THEIR PREPARATION  
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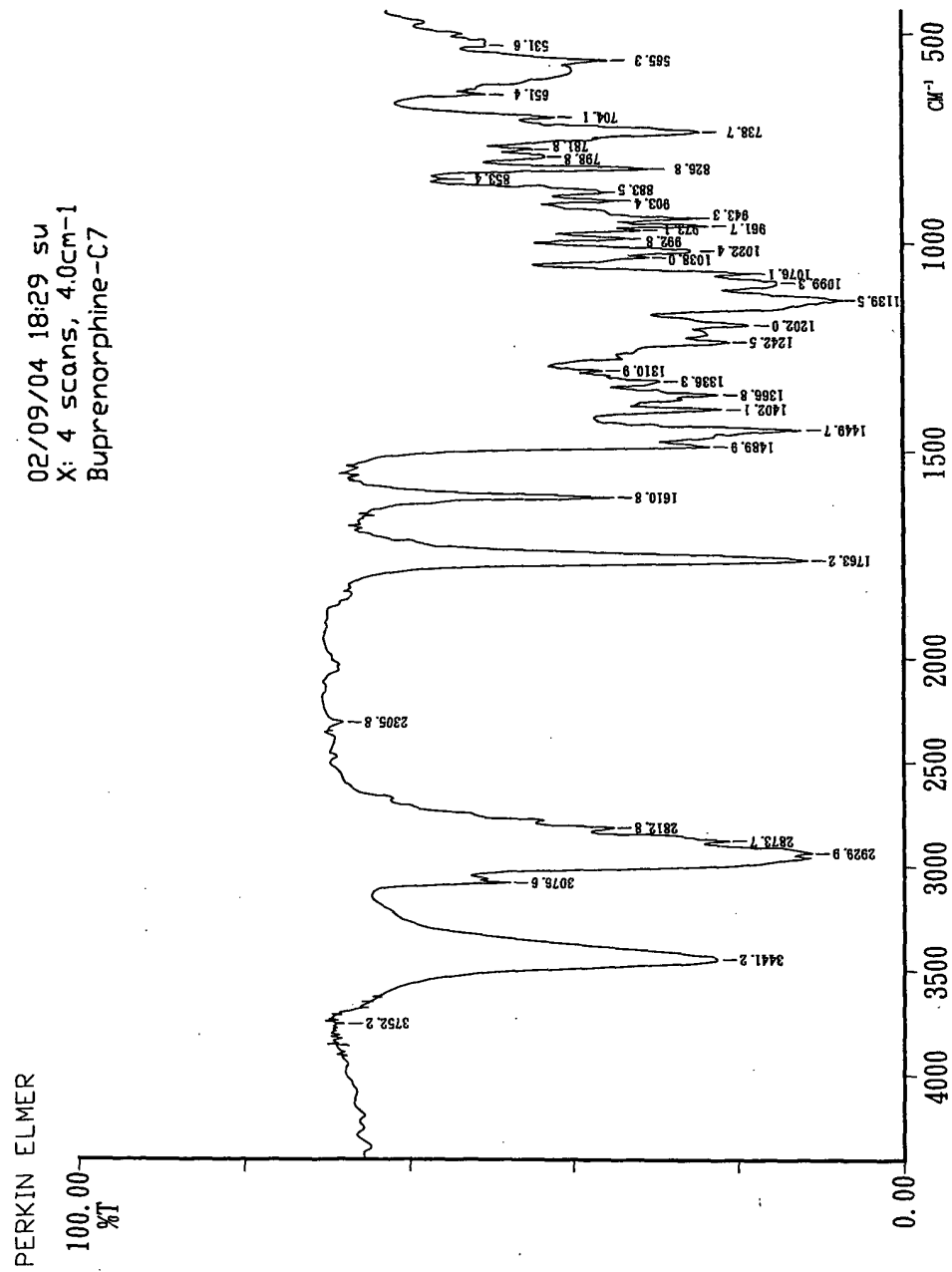


FIG. 4

THE NOVEL ESTER  
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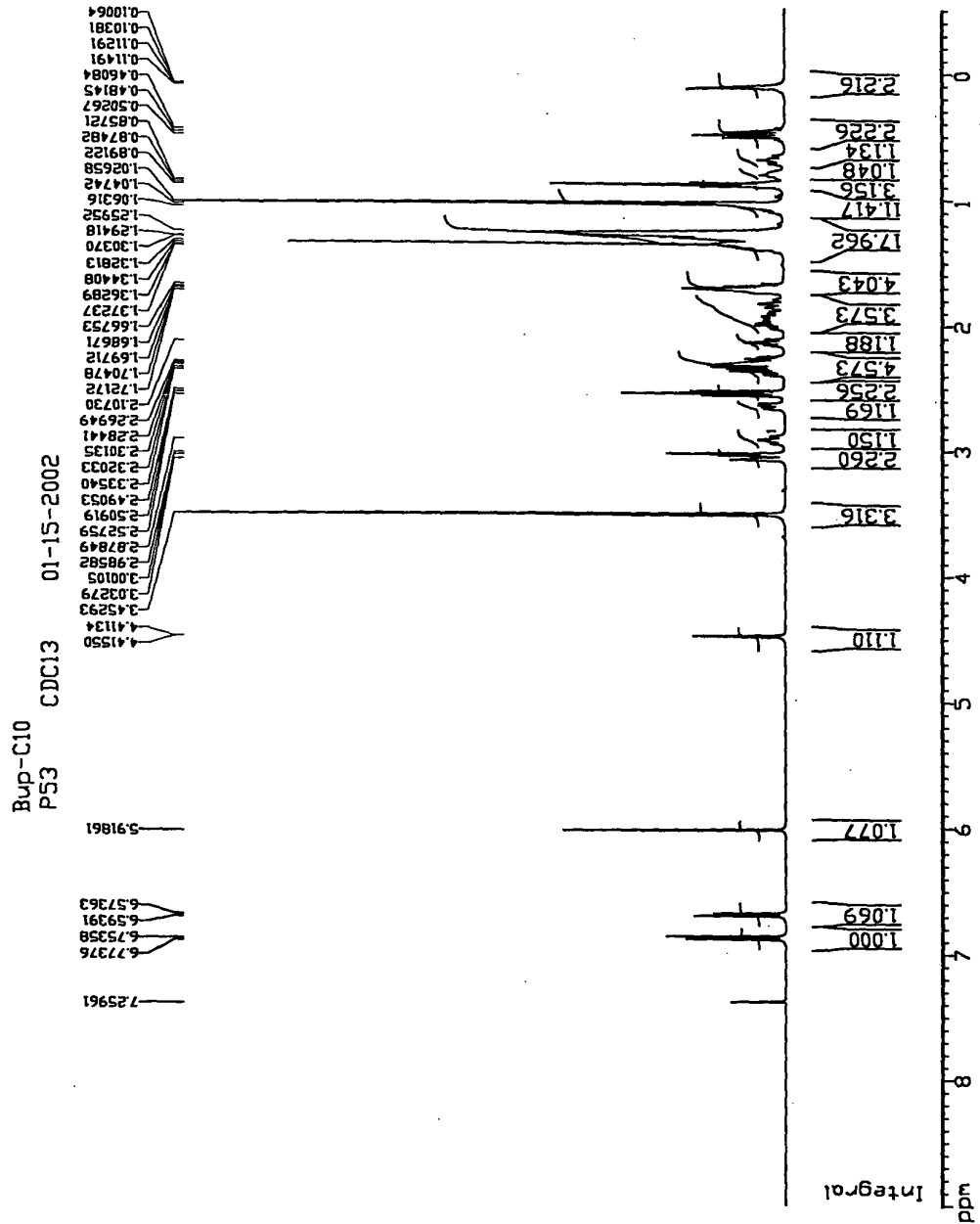


FIG. 5

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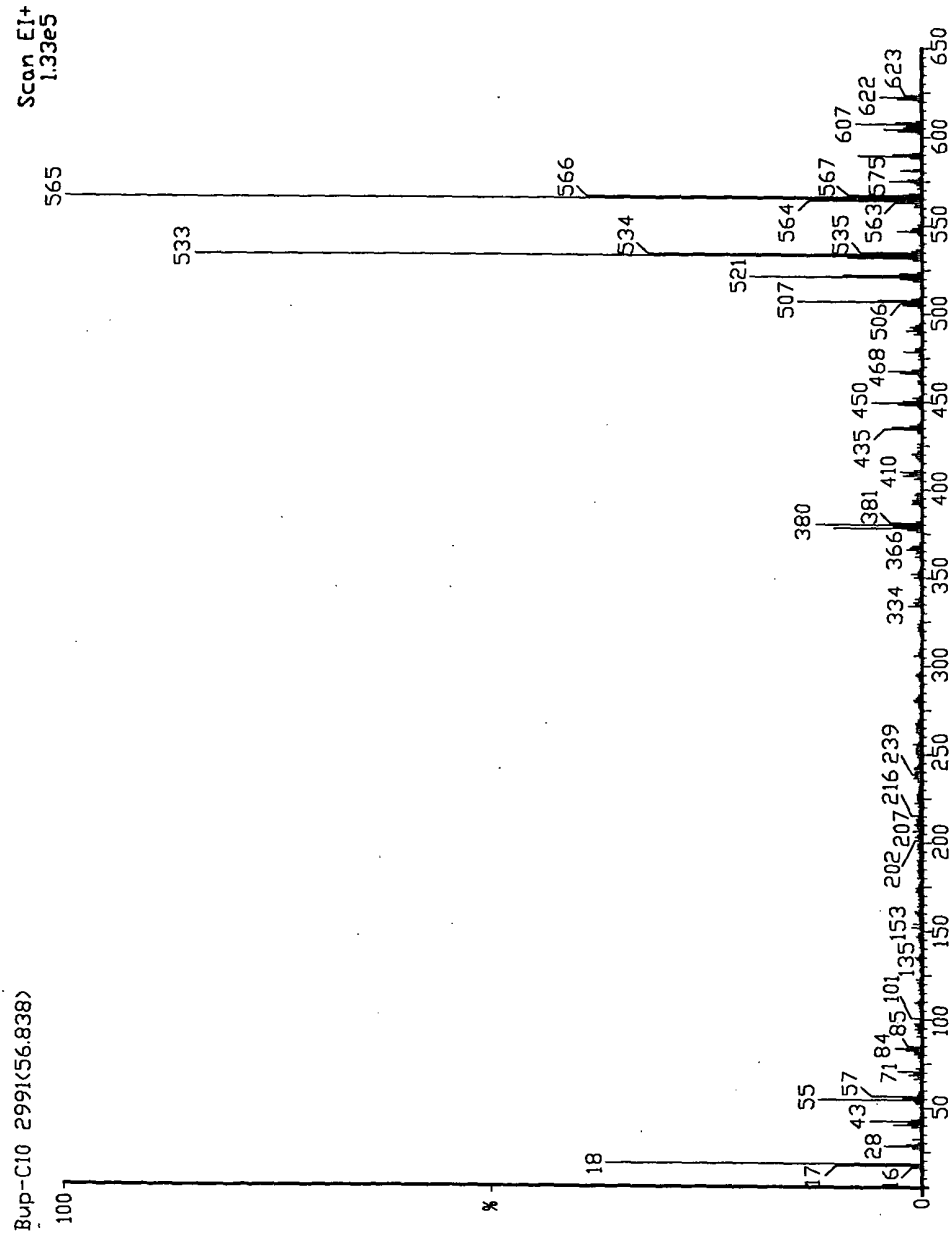
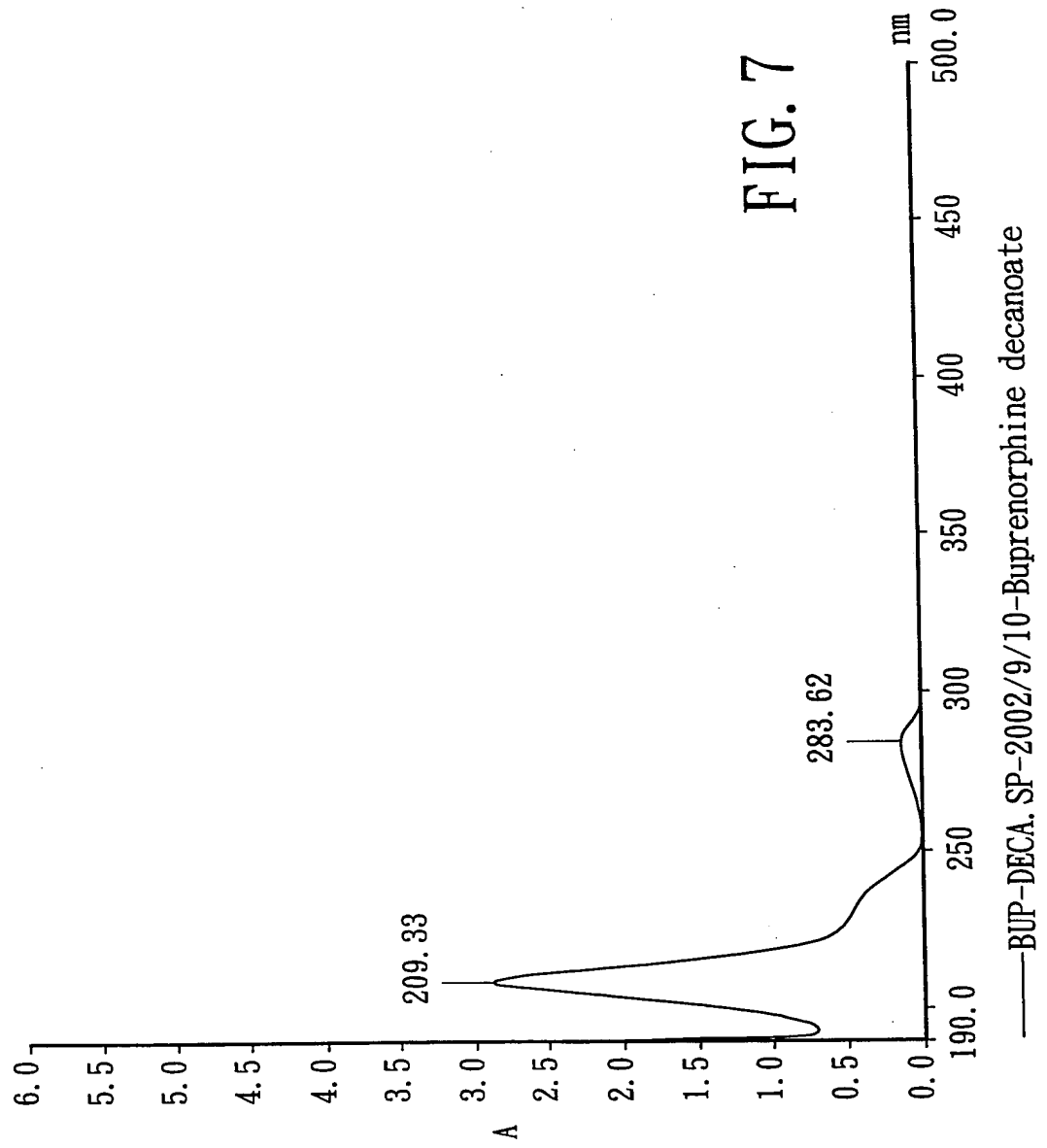


FIG. 6



BUPRENORPHINE AND THEIR PREPARATION  
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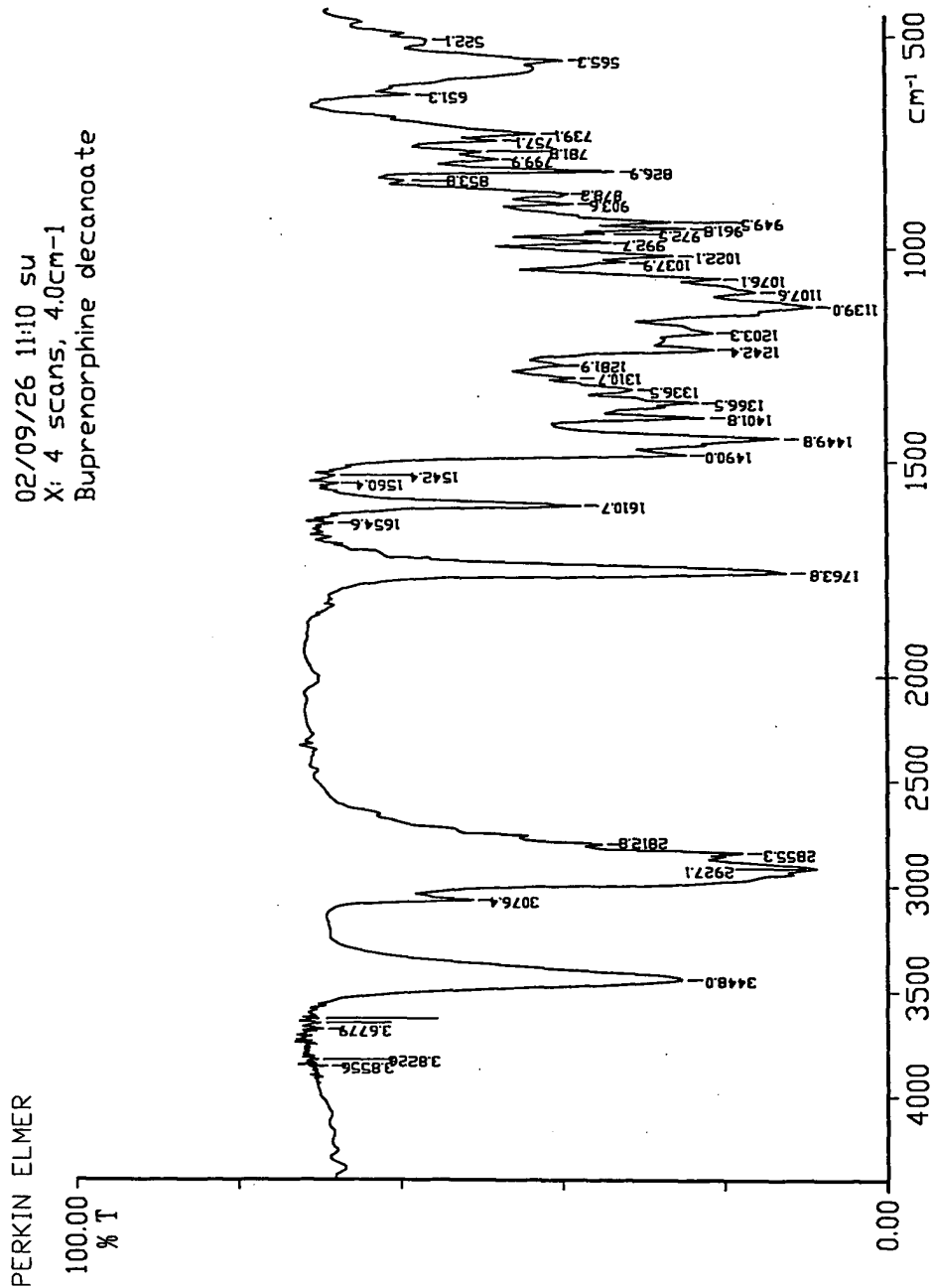


FIG. 8



Scan EI+  
1.39e5

Buprenorphine pivalate 1478(29.098)

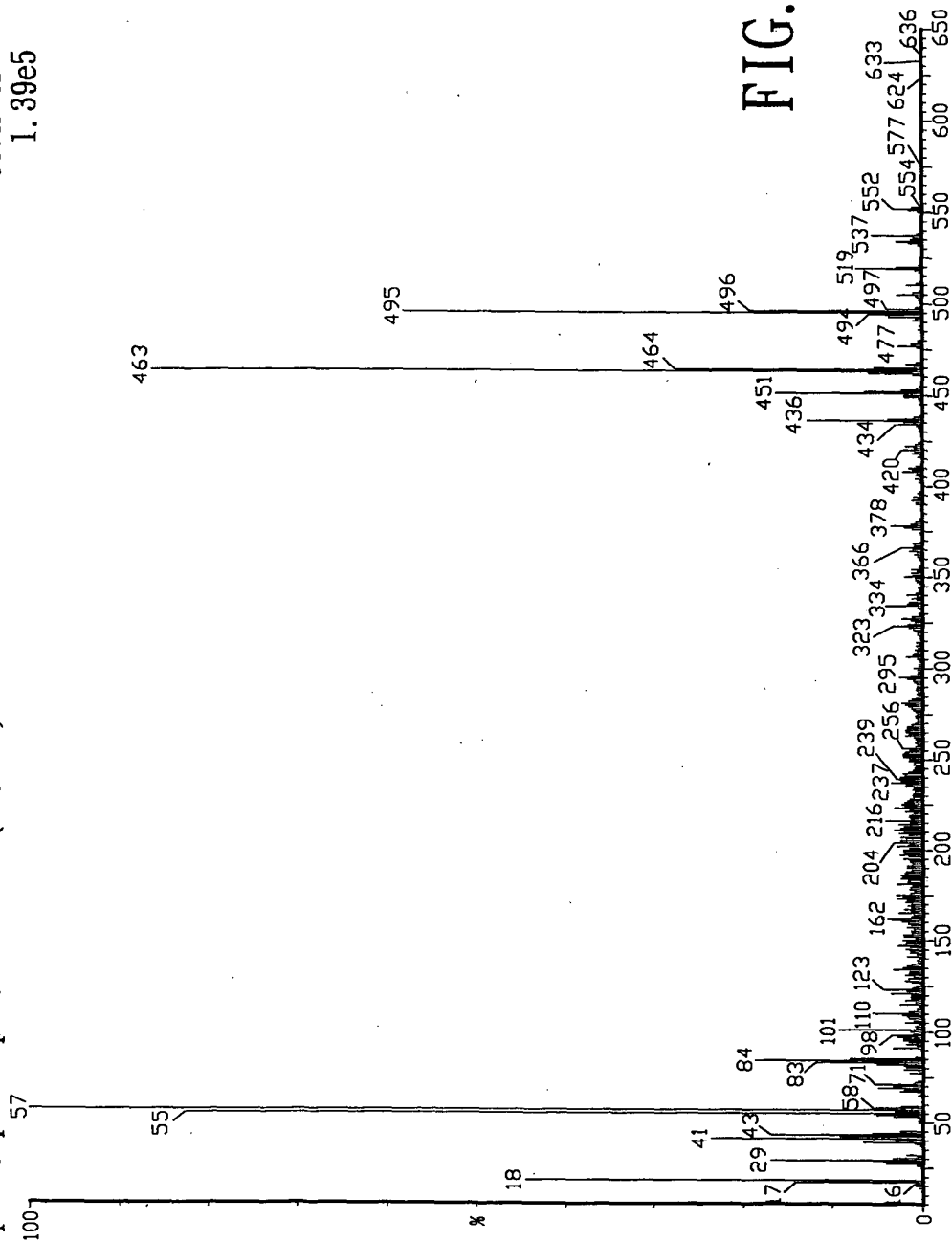


FIG. 9

THE NOVEL  
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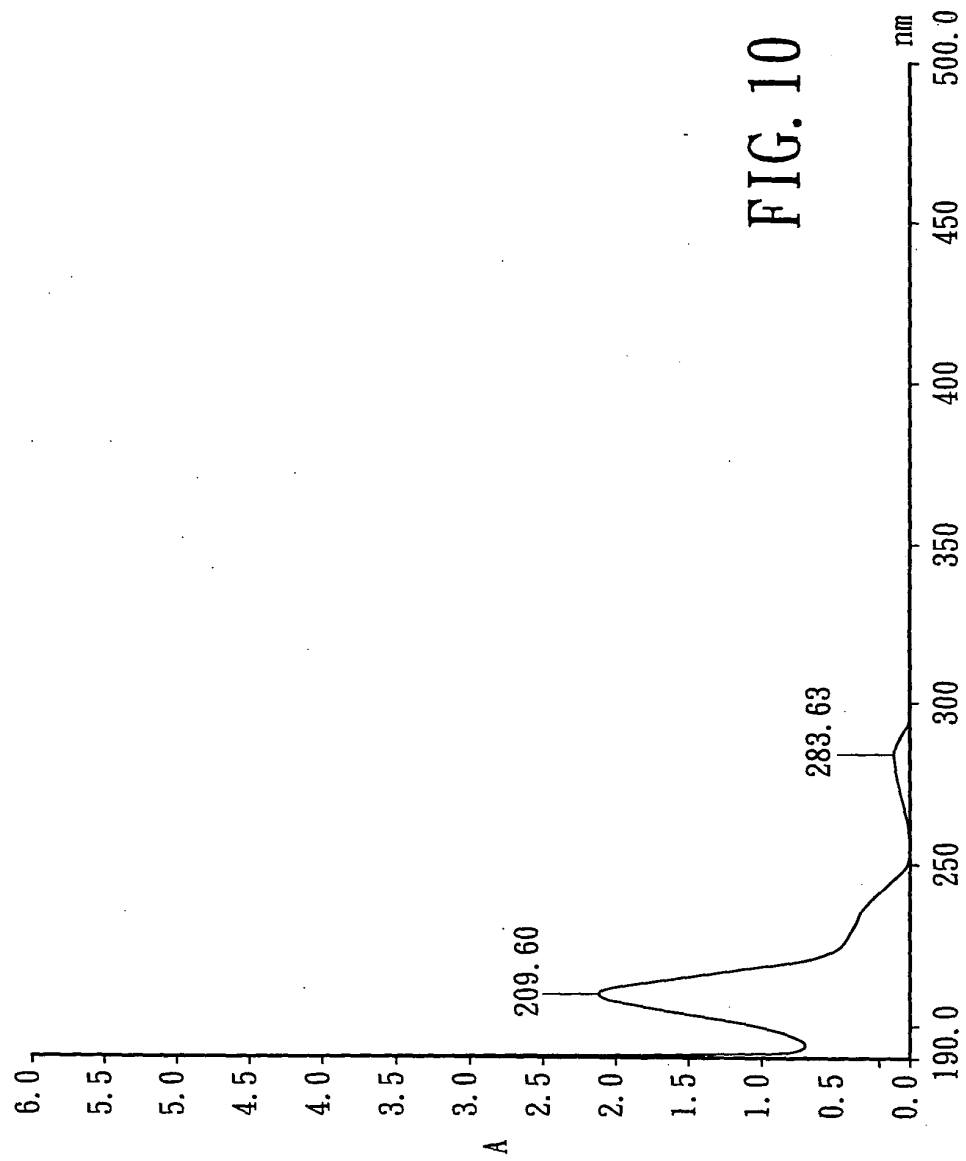


FIG. 10

— BUP-PIVA. SP-2002/9/10-Buprenorphine pivalate

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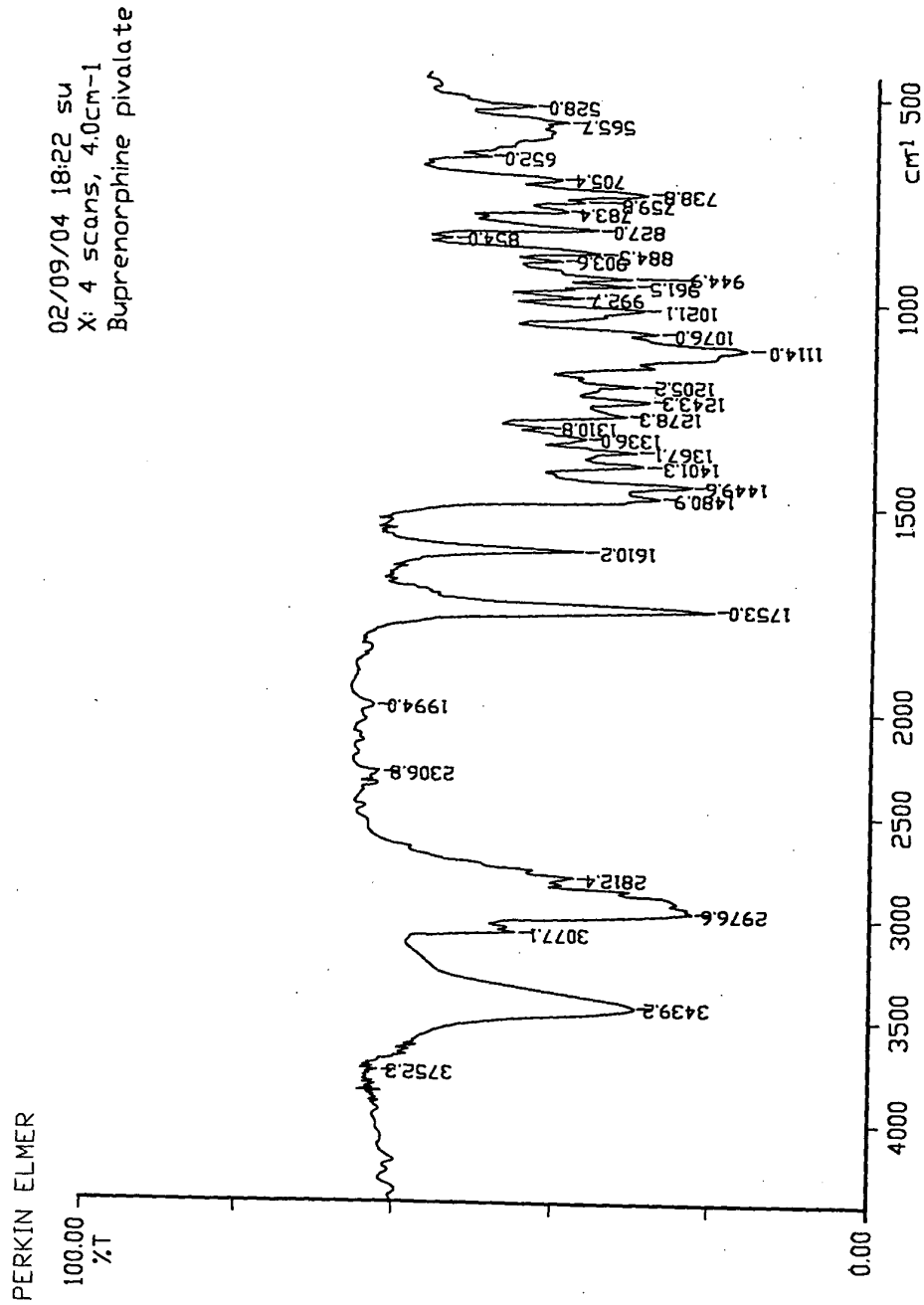
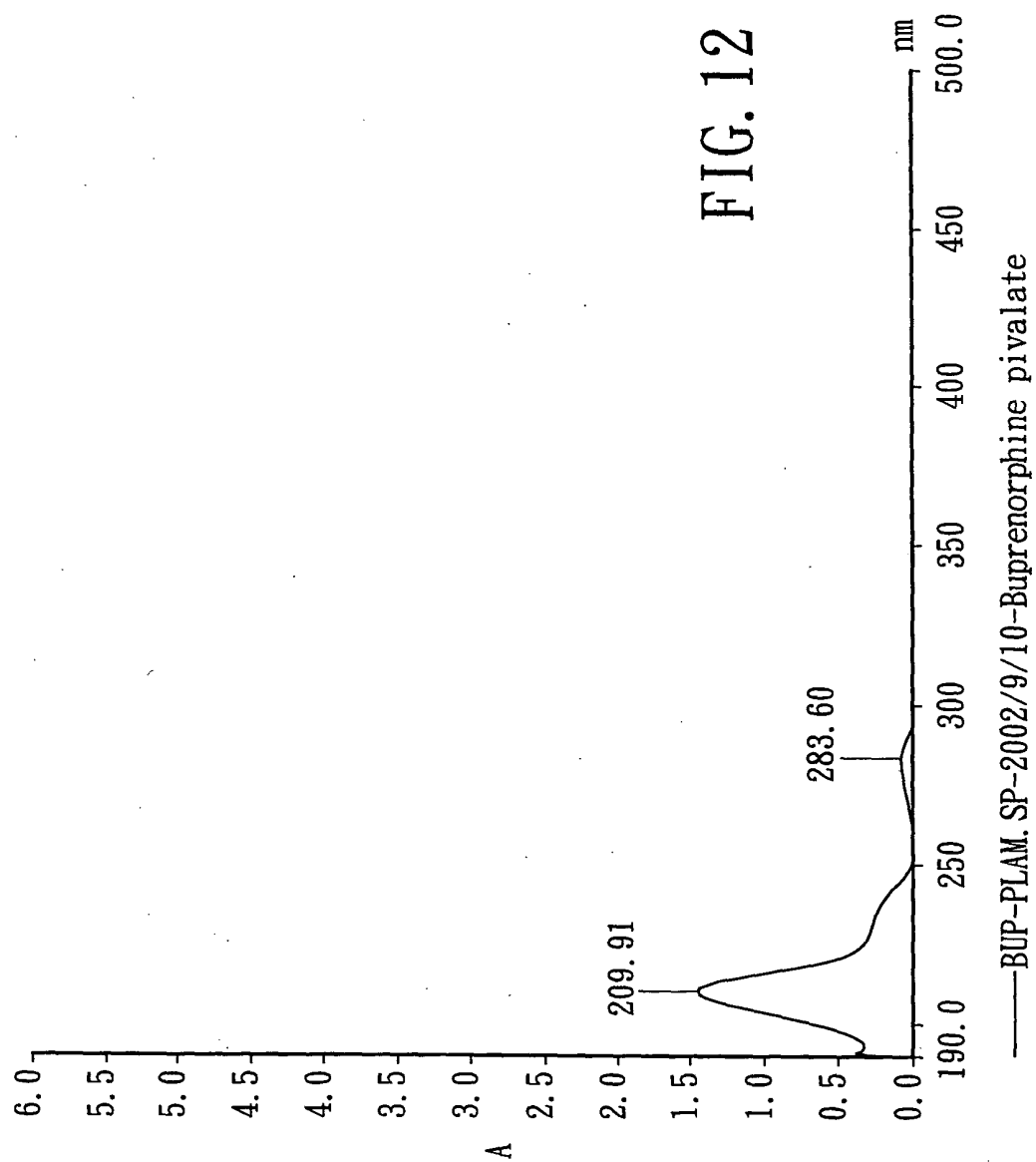


FIG. 11

BUPRENORPHINE AND THEIR PREPARATION  
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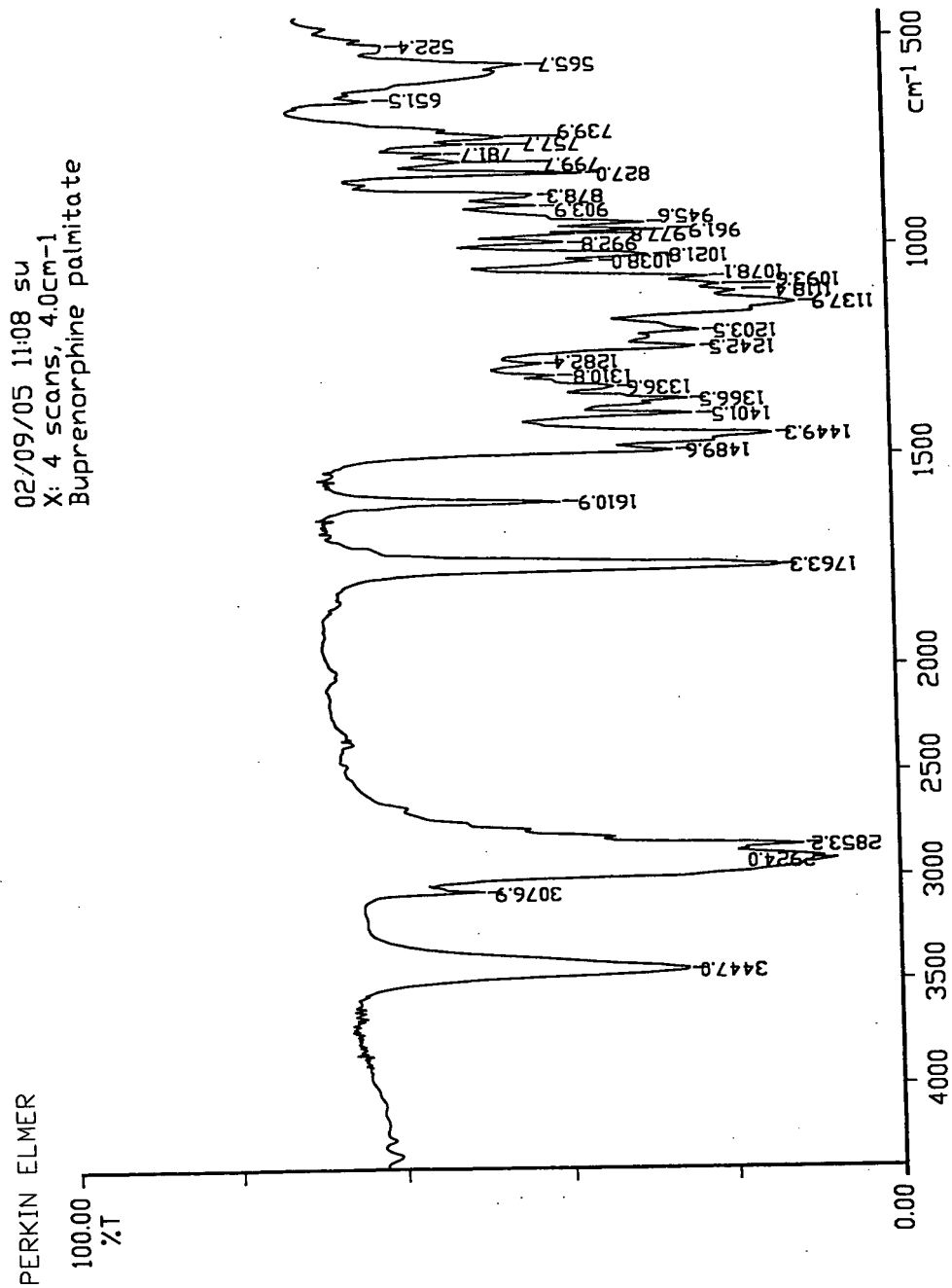


FIG. 13

FIG. 14  
 BUPRENORPHINE AND THEIR PREPARATION  
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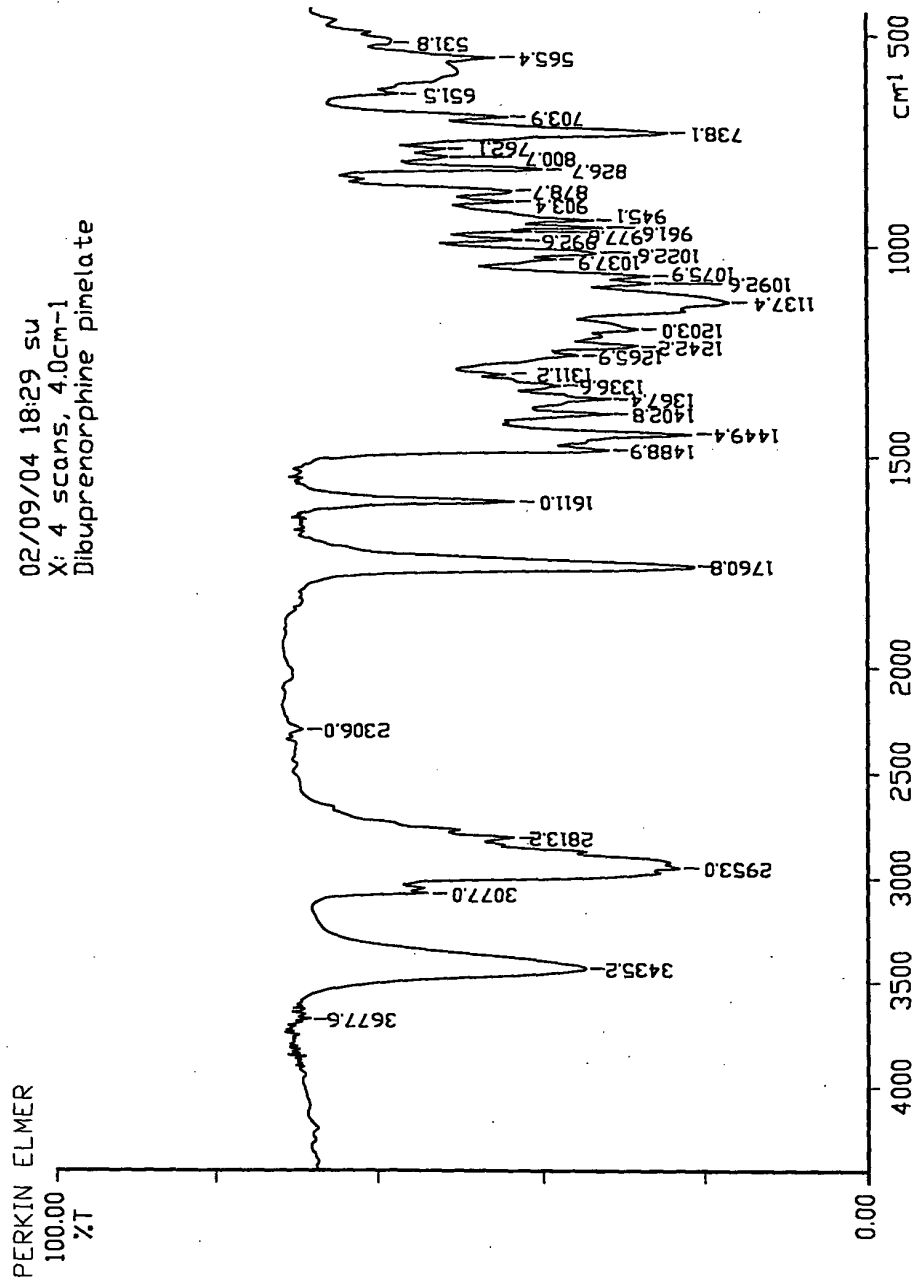
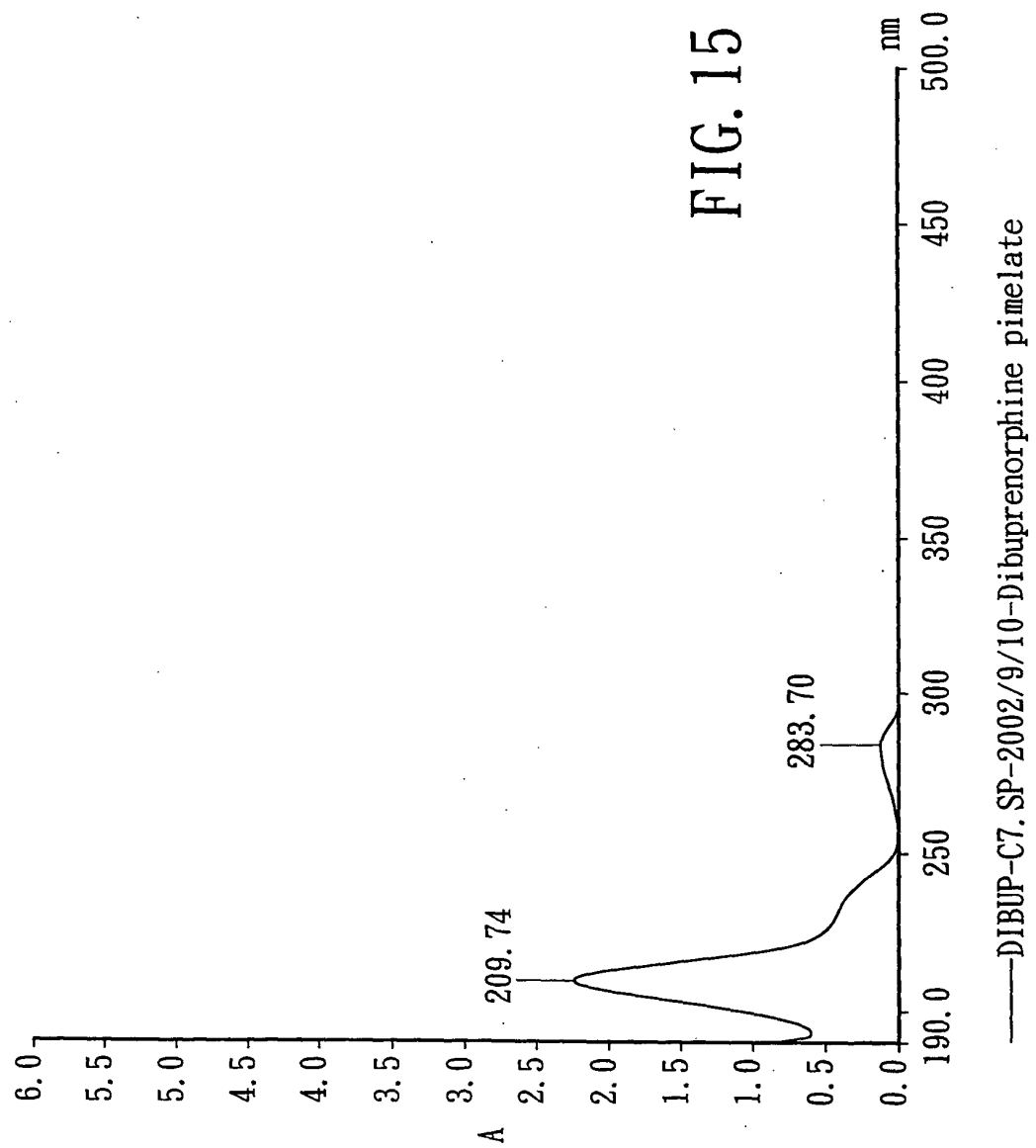


FIG. 14



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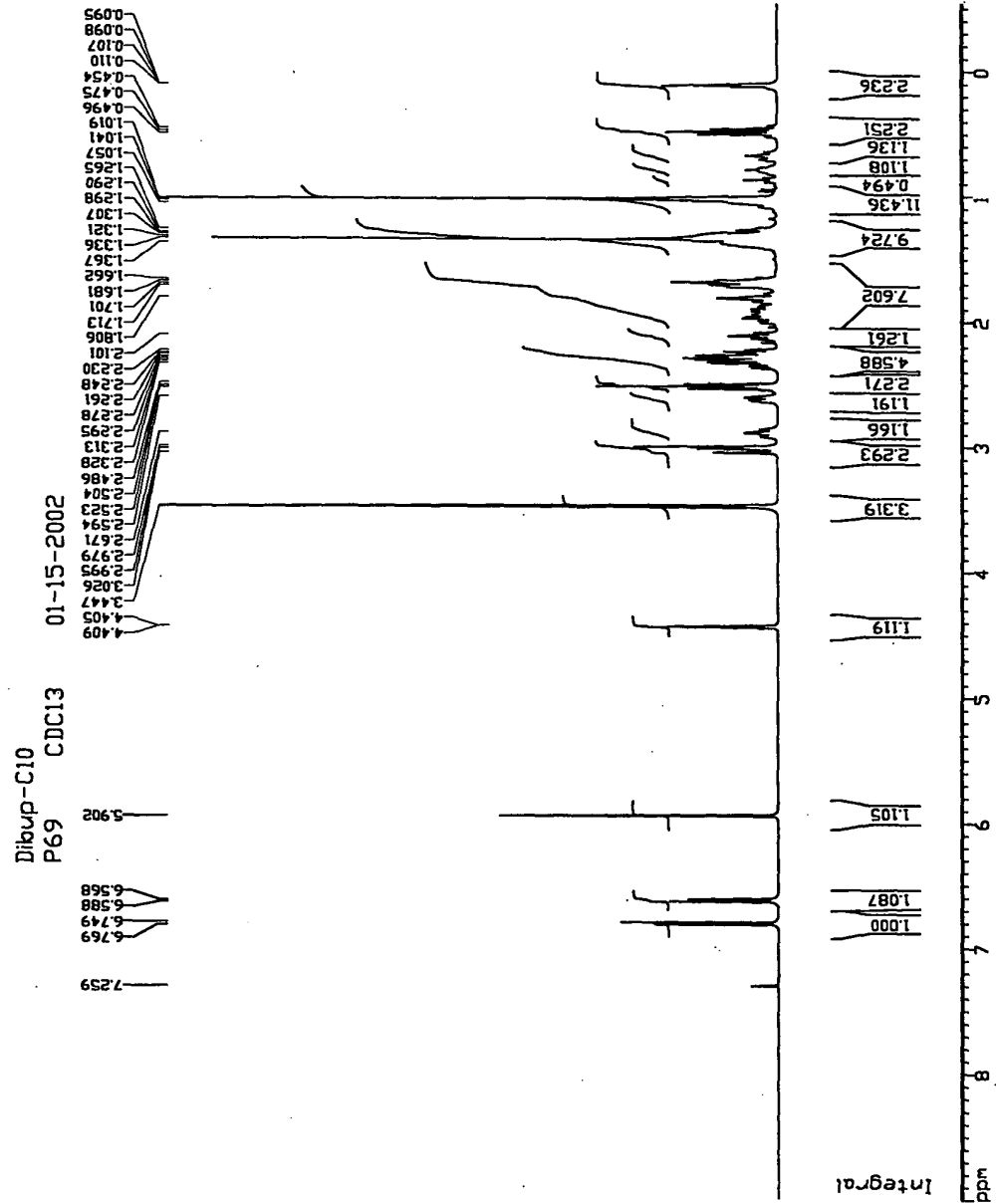
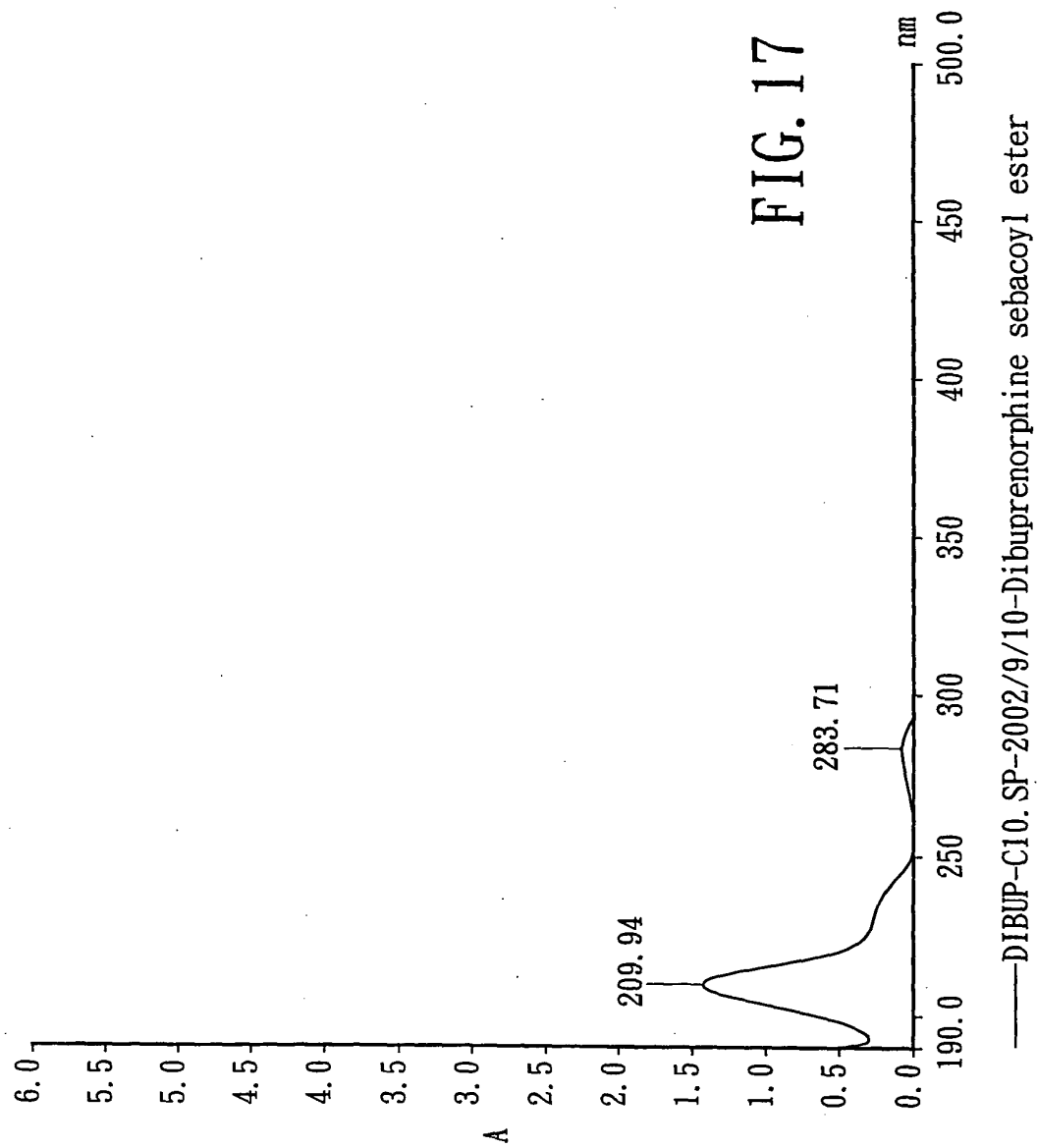


FIG. 16



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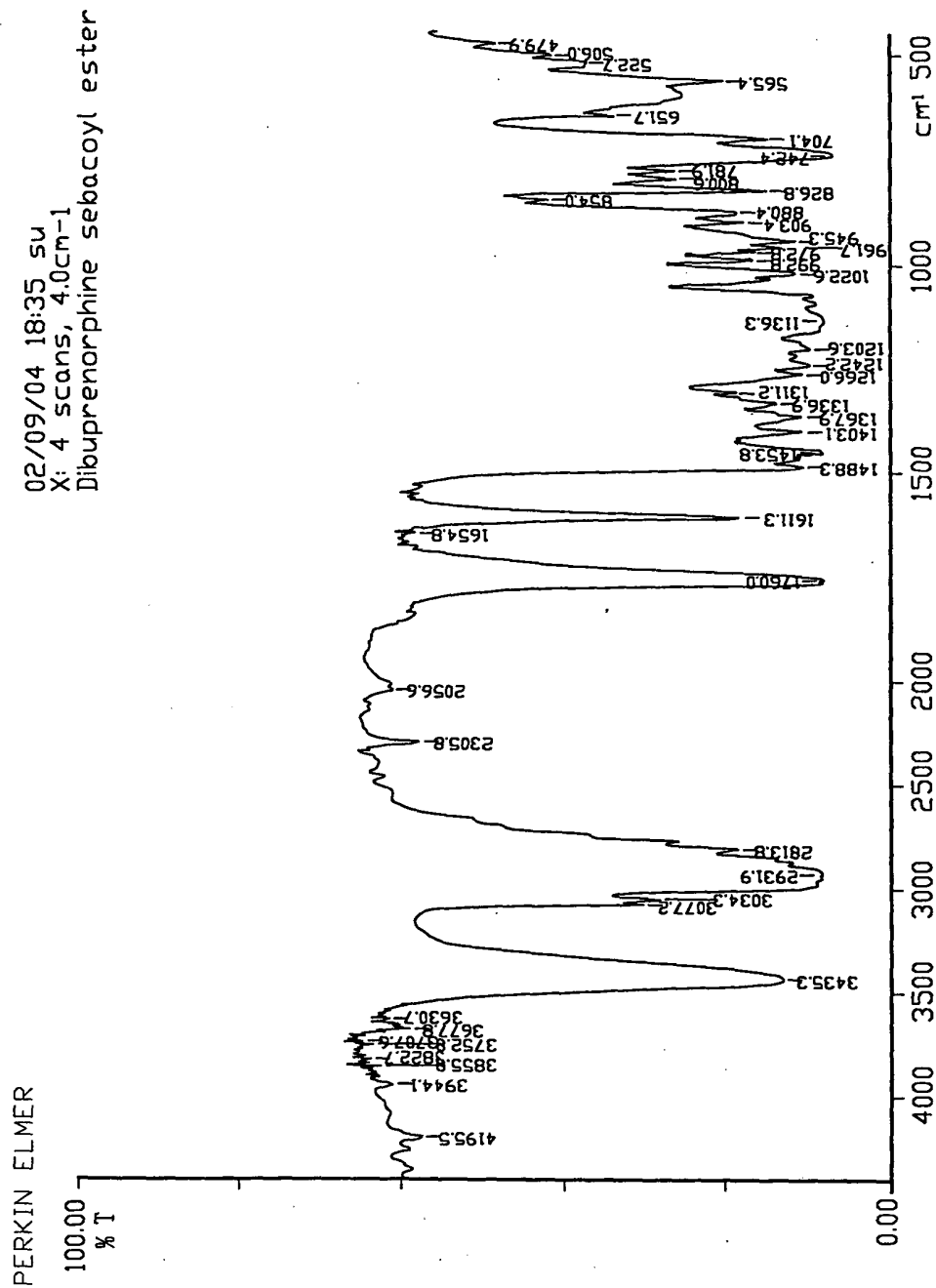


FIG. 18

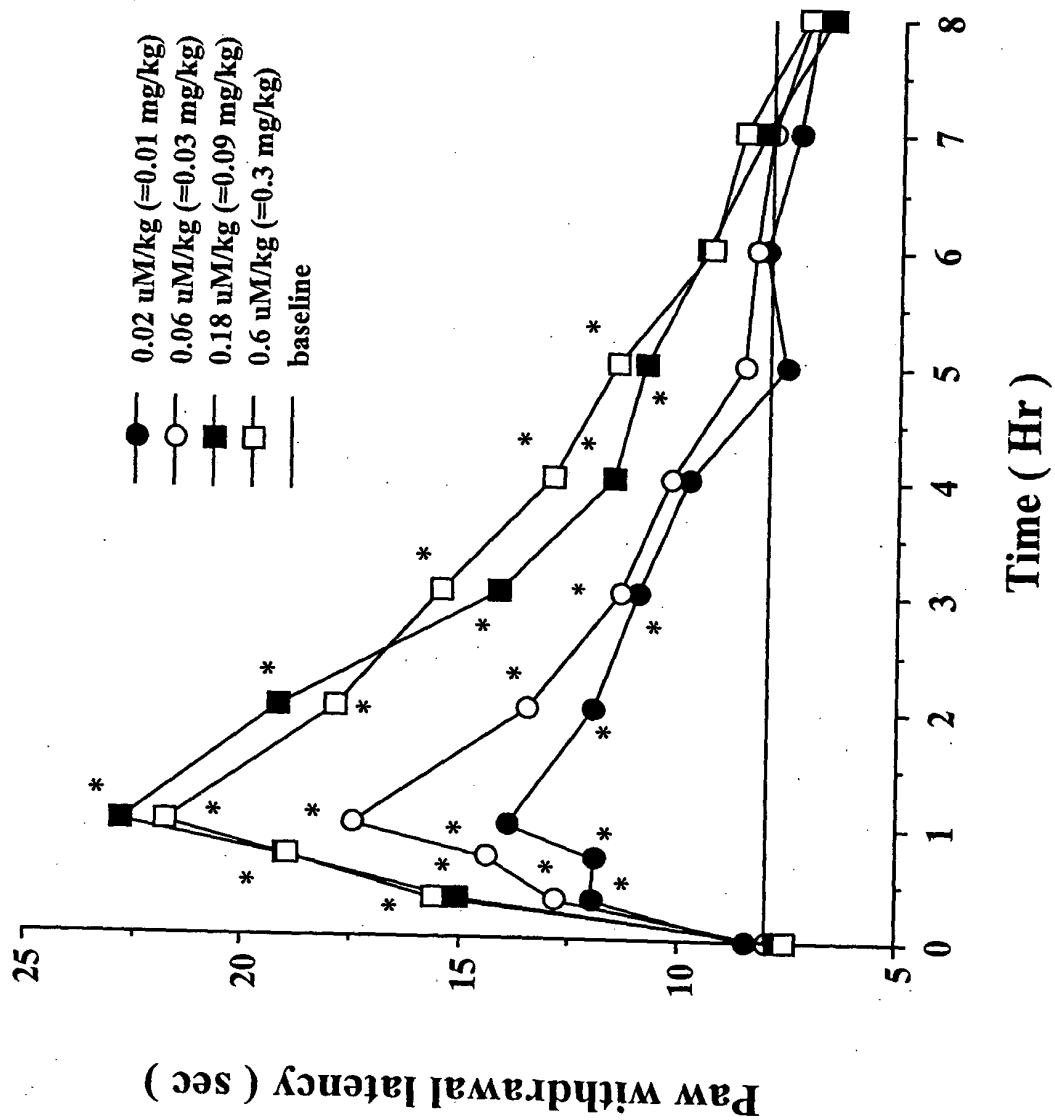


FIG. 19

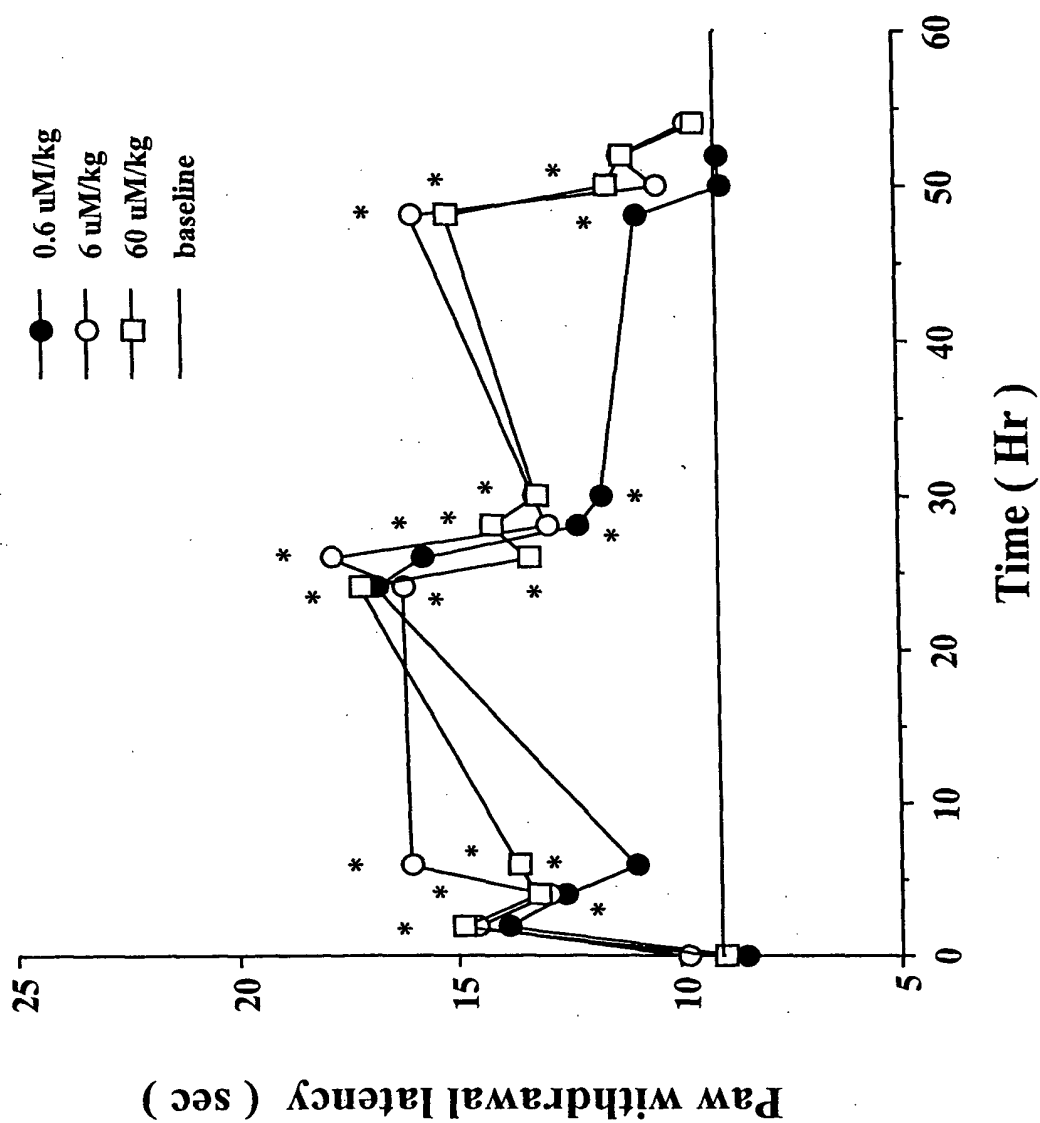


FIG. 20-A

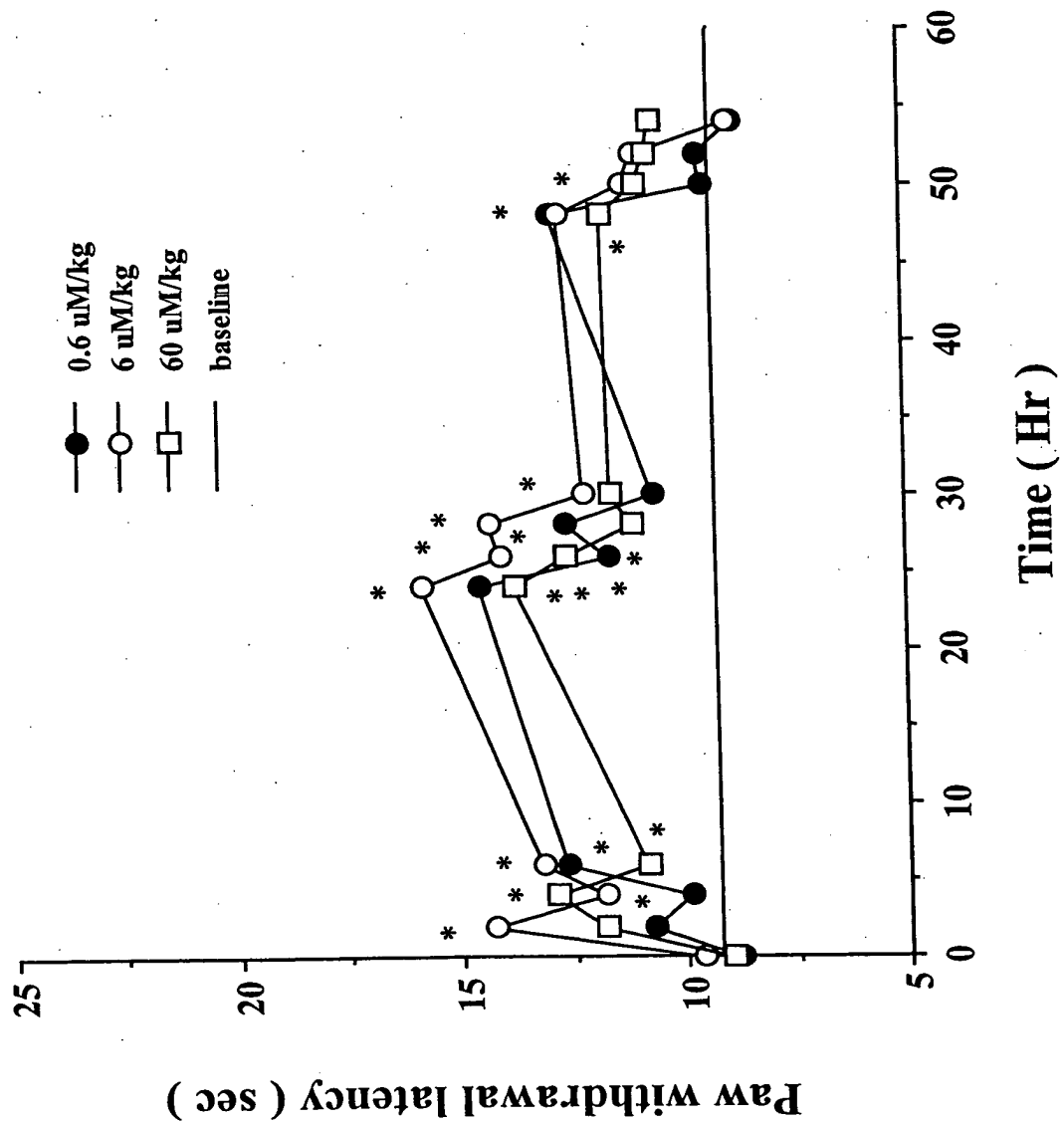


FIG. 20-B

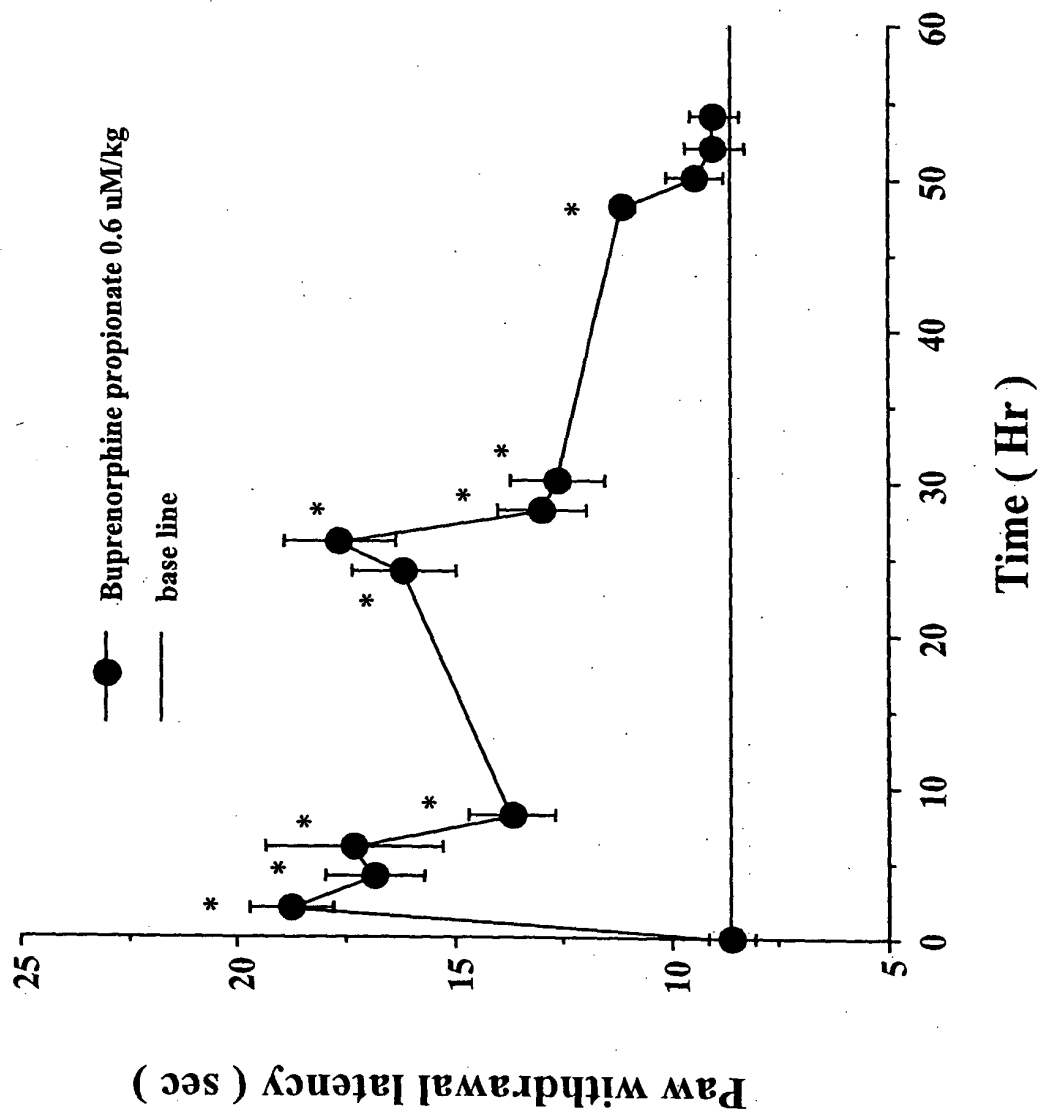


FIG. 21-A

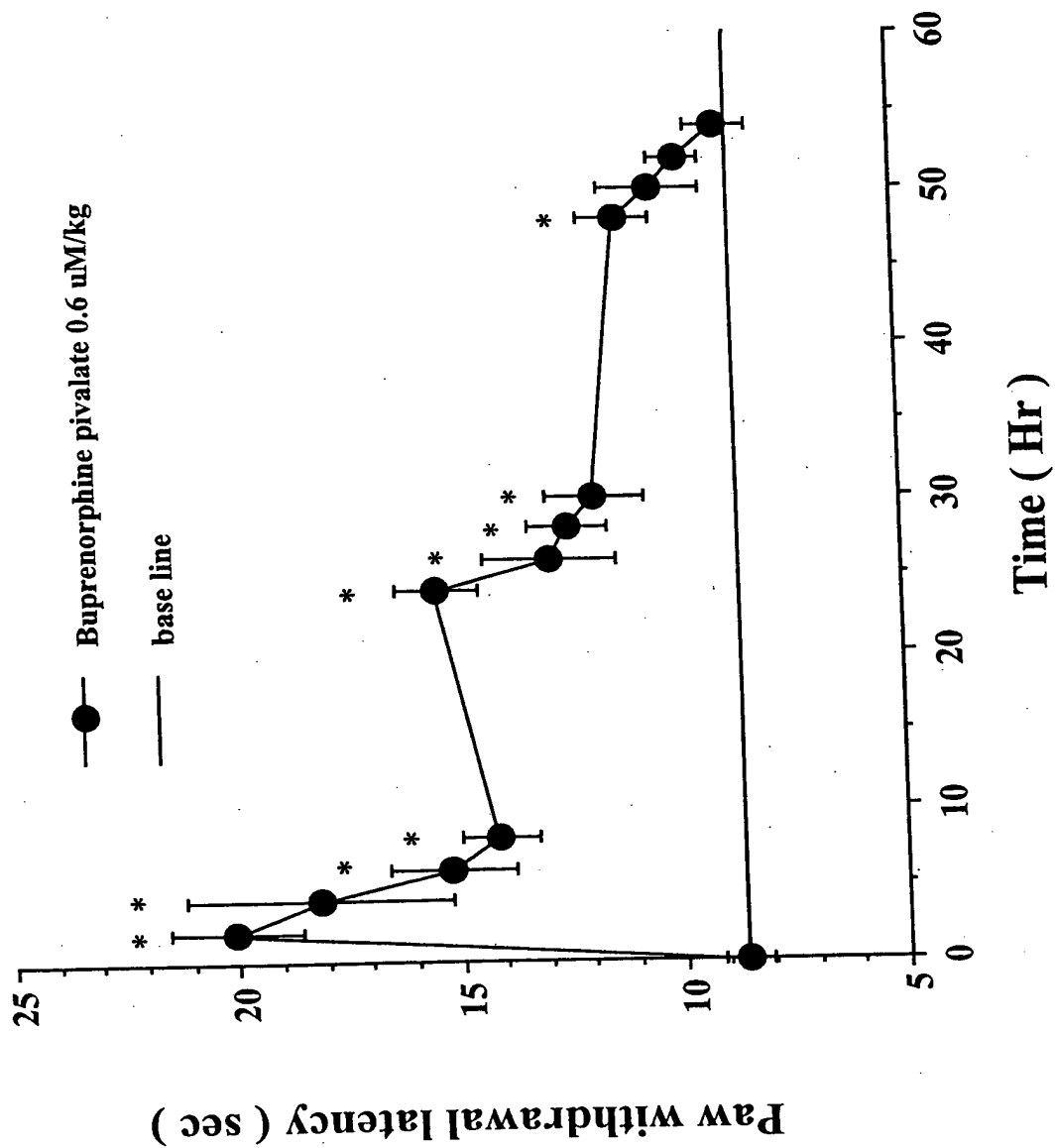


FIG. 21-B

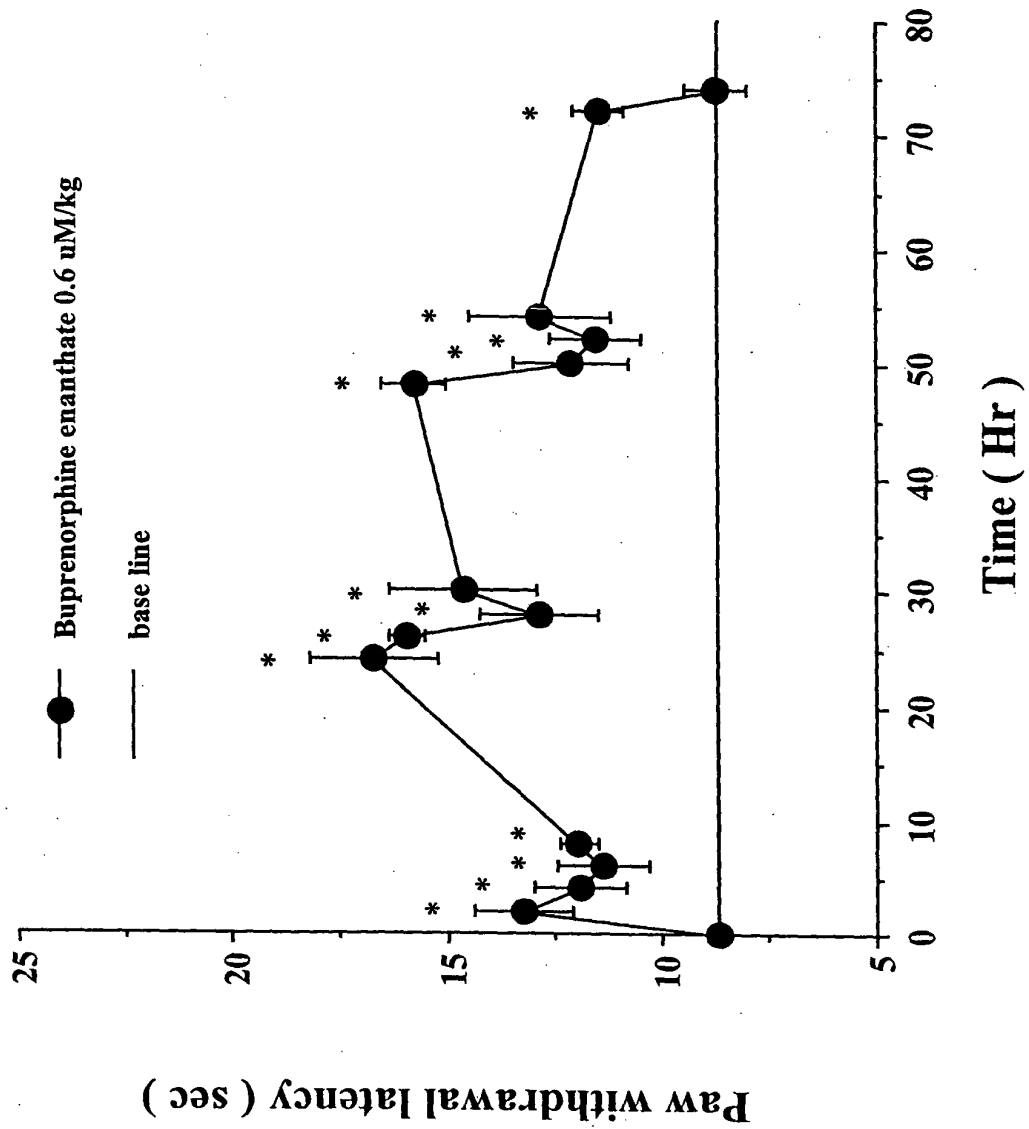


FIG. 21-C



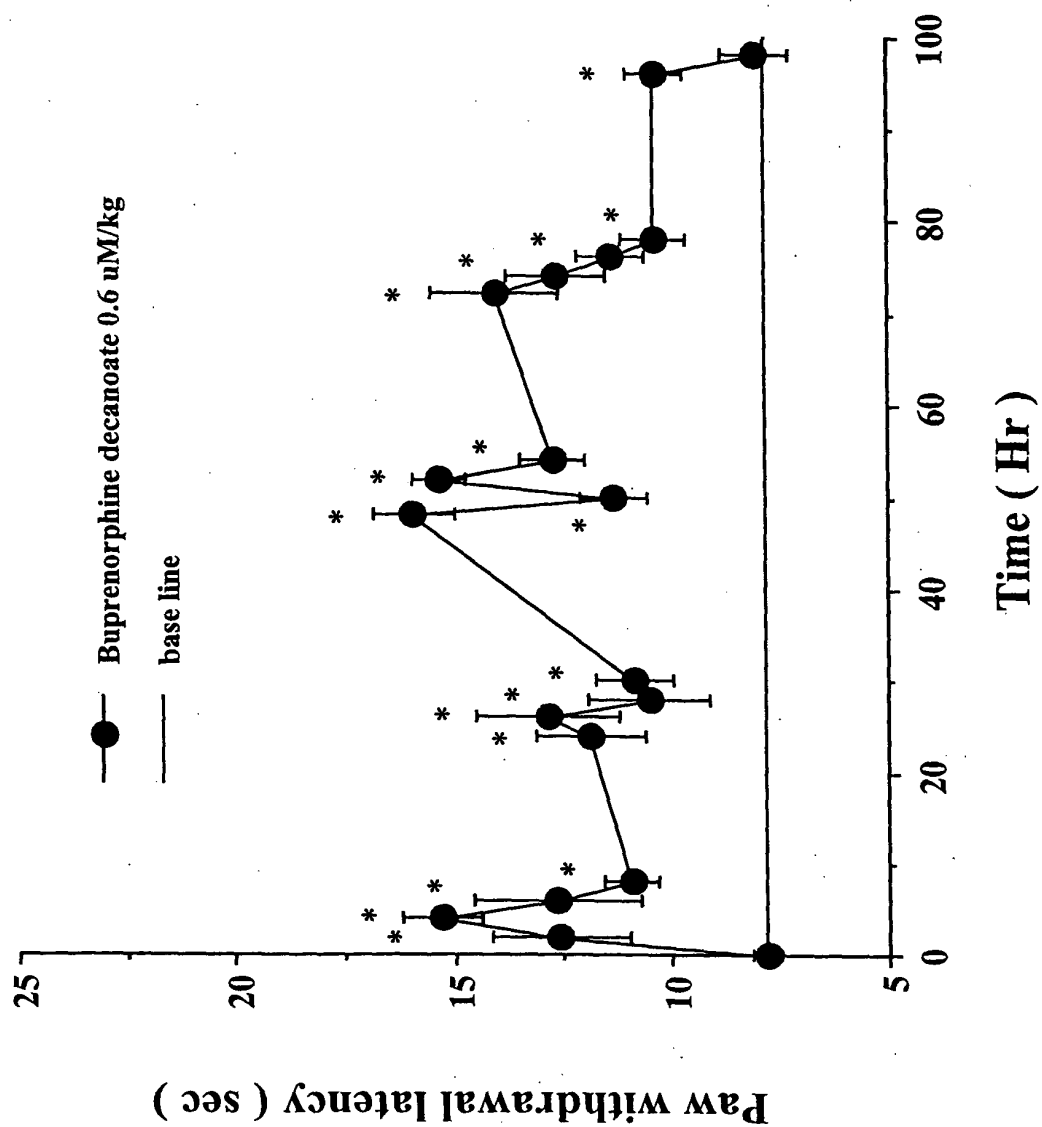


FIG. 21-D

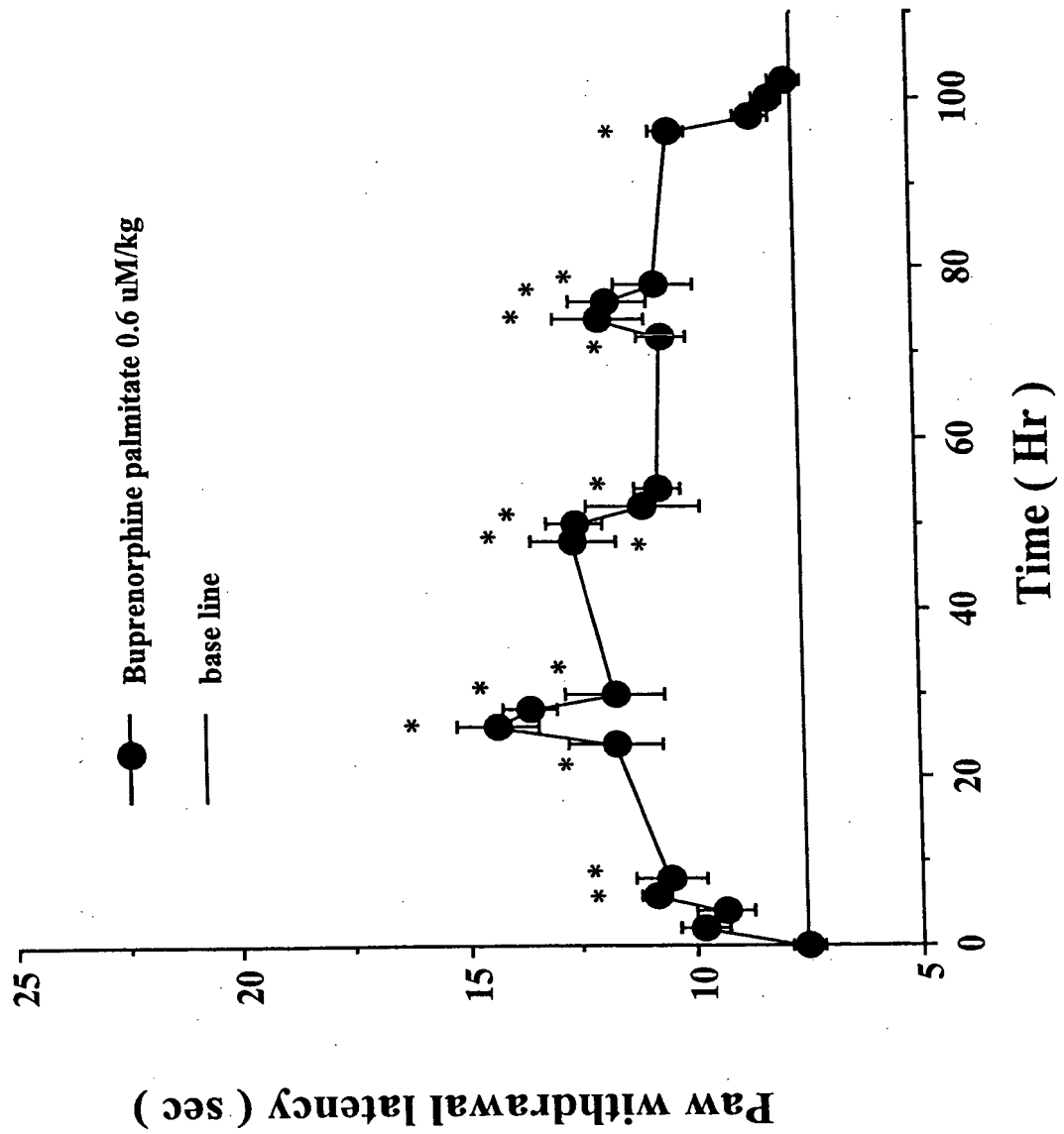
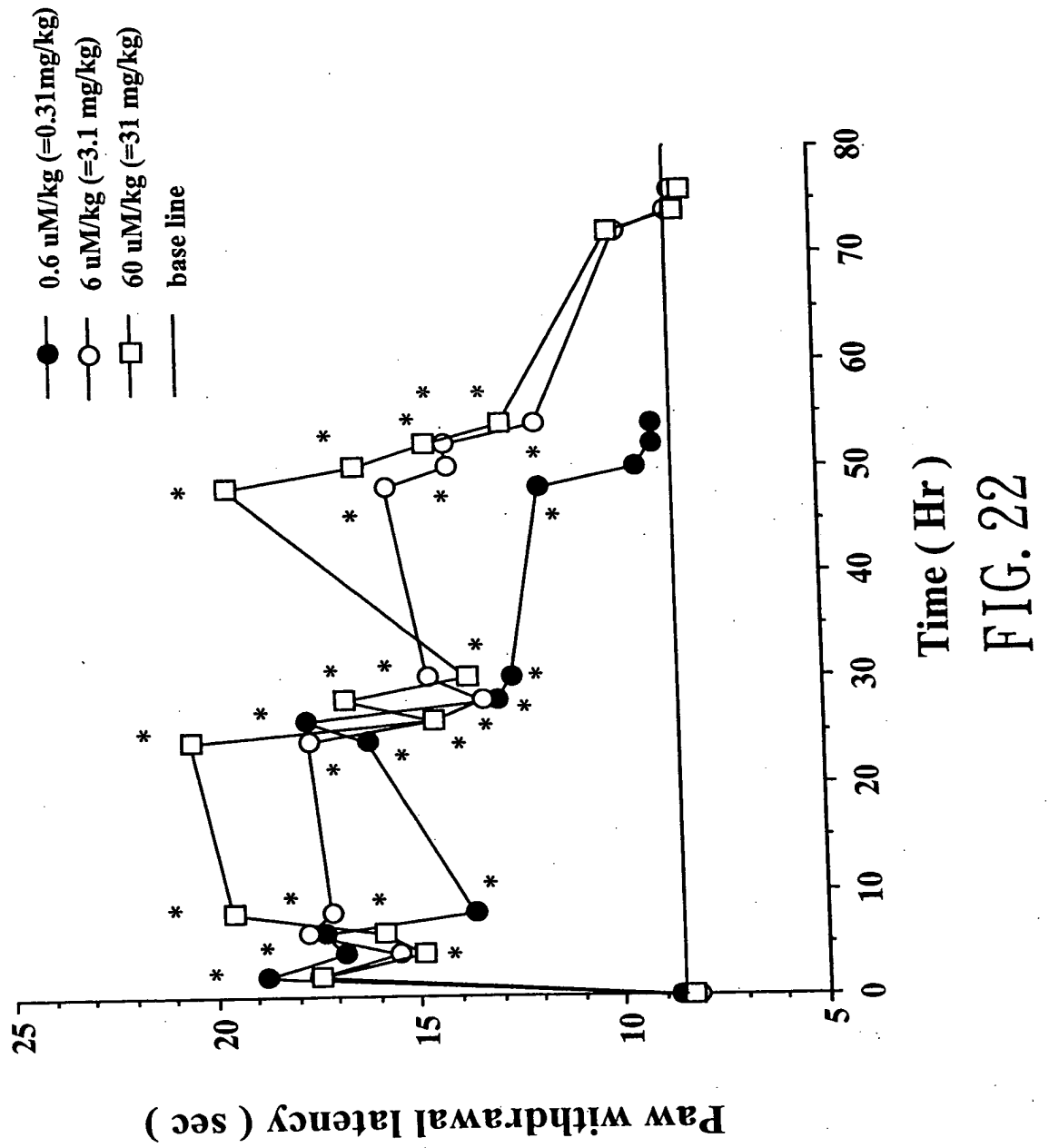


FIG. 21-E



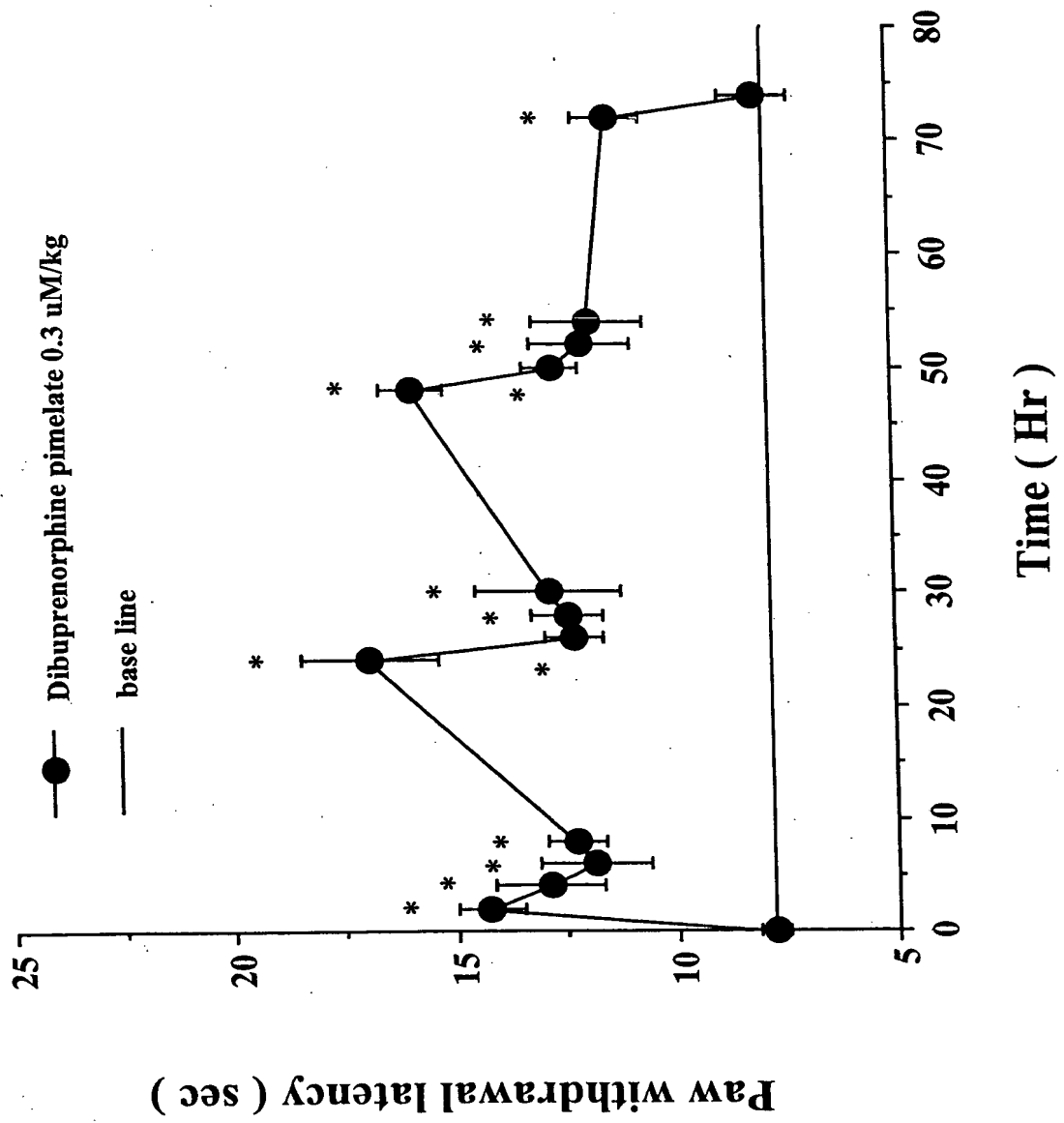


FIG. 23-A

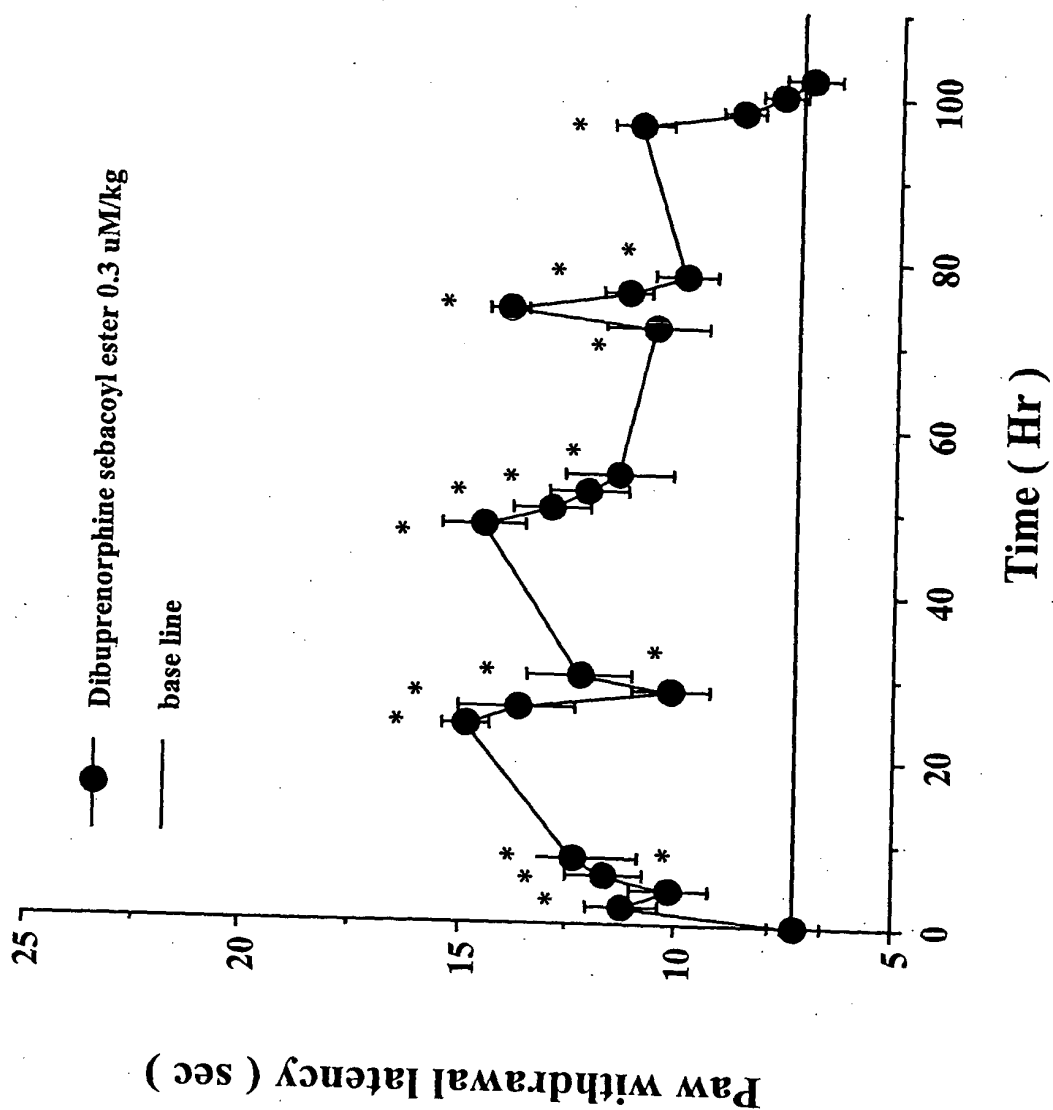


FIG. 23-B